




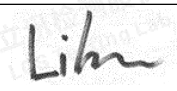
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: LED PROJECTOR

Test Model: L003A

Environmental Conditions

| | |
|--------------------|---|
| Temperature: | 23.8 ° C |
| Relative Humidity: | 52.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: |  Nick Peng |
| Supervised by: |  Li Huan |





A.1 -20dB Bandwidth

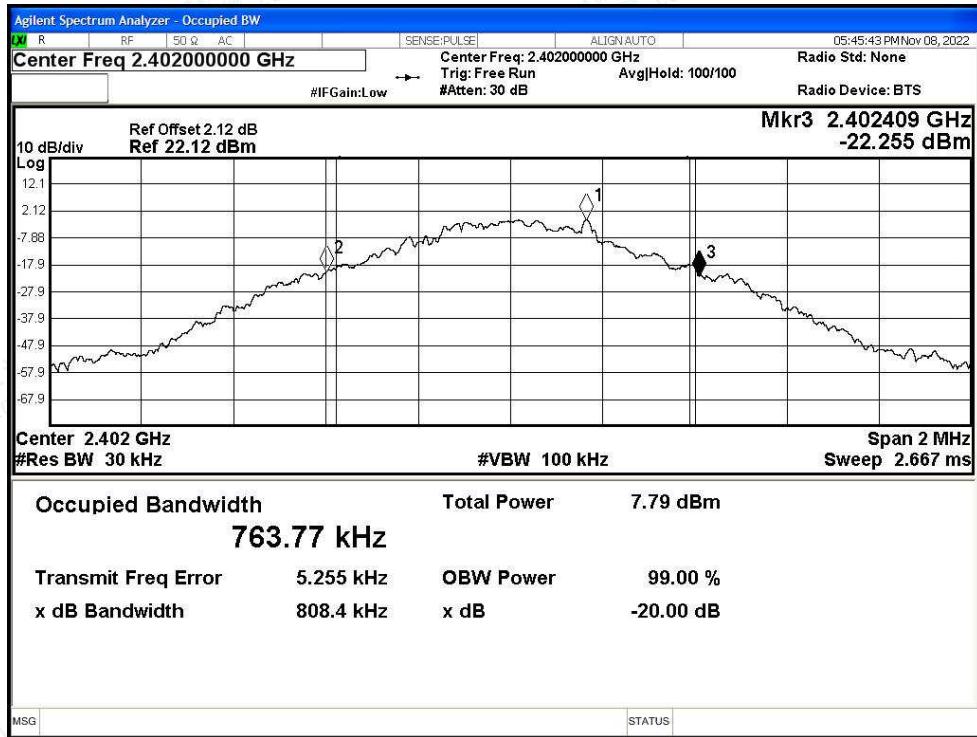
| Condition | Mode | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 0.808 | N/A | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | 0.92 | N/A | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | 0.901 | N/A | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 1.274 | N/A | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | 1.316 | N/A | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | 1.279 | N/A | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 1.312 | N/A | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | 1.276 | N/A | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | 1.286 | N/A | Pass |



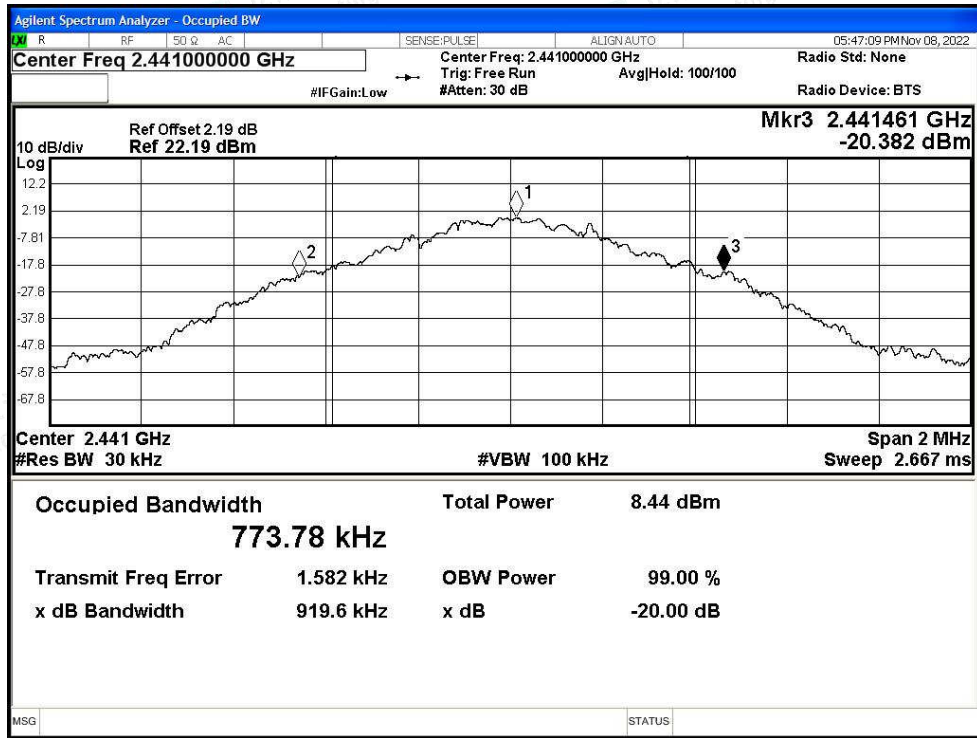


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

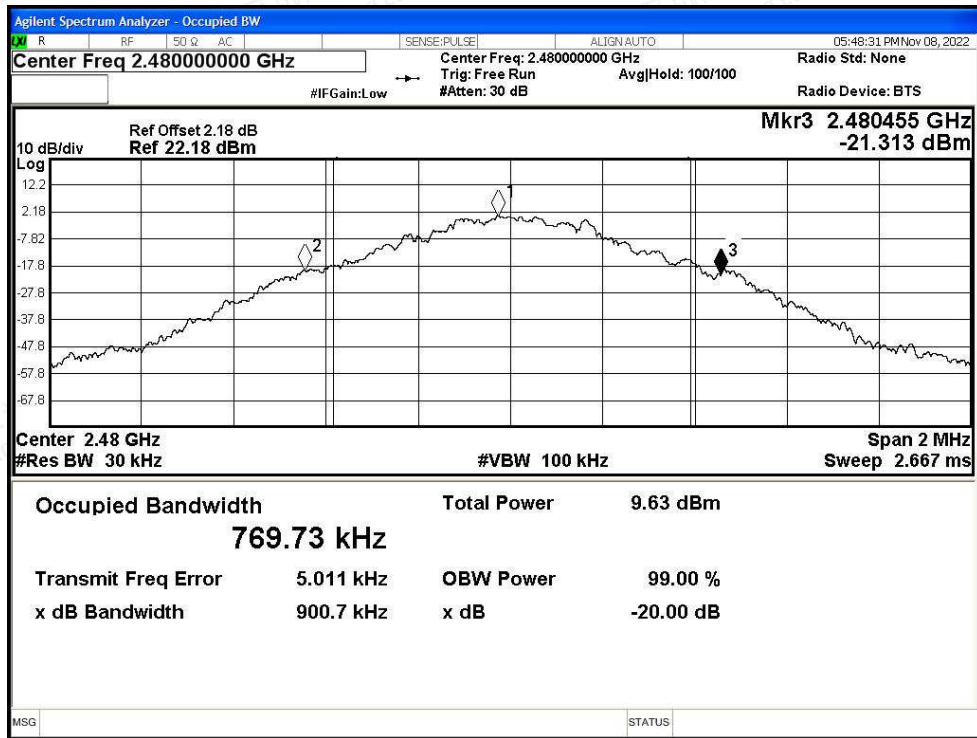


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

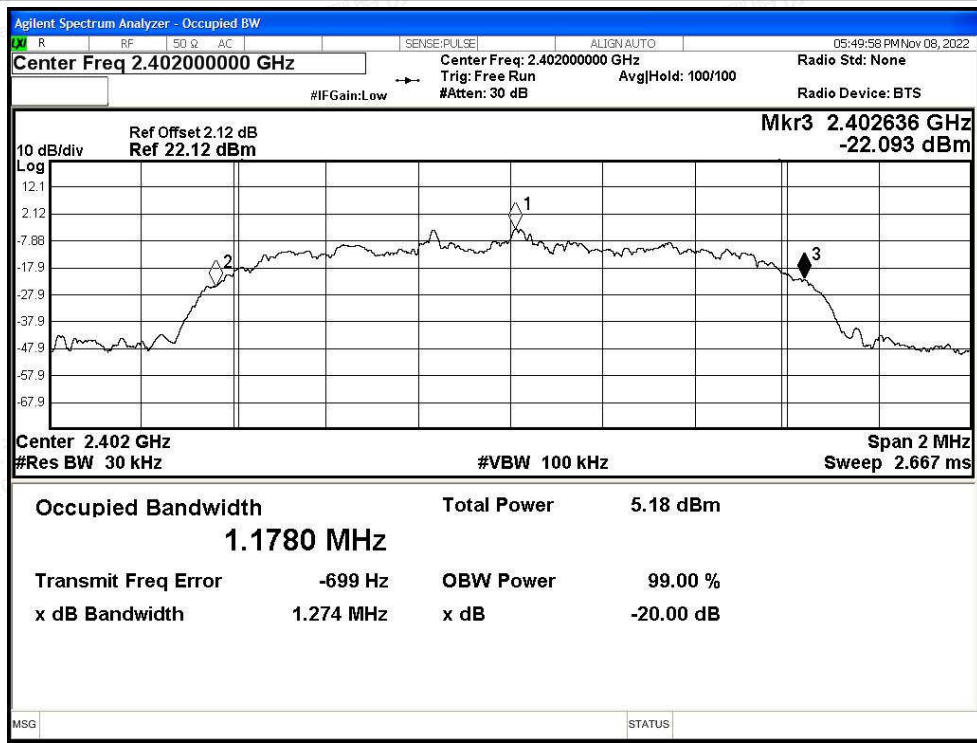




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

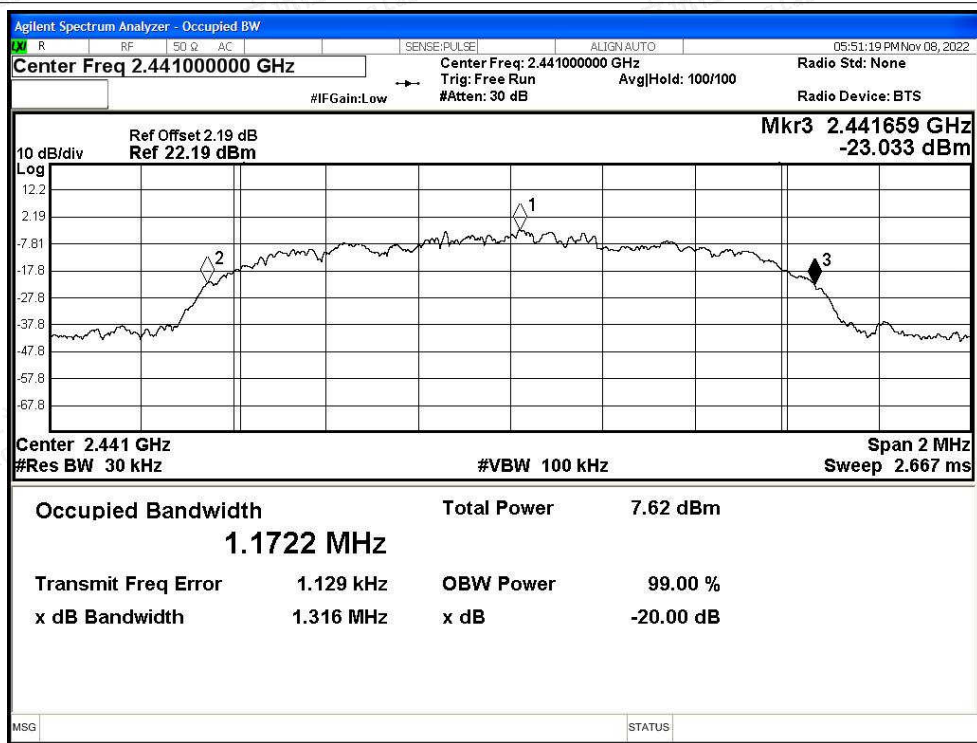


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

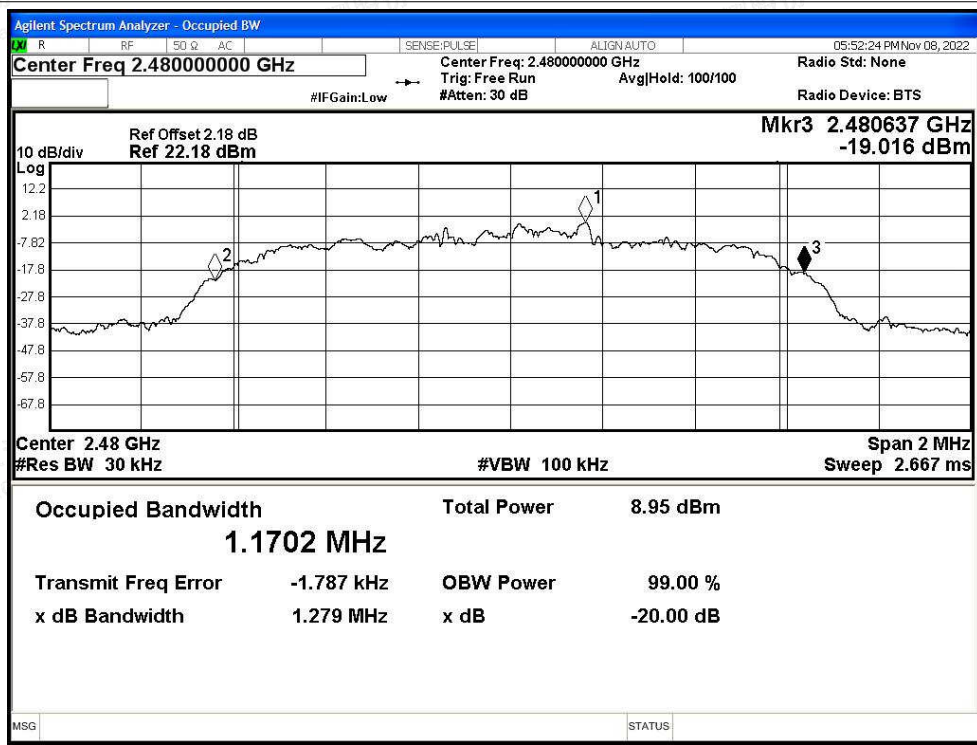




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

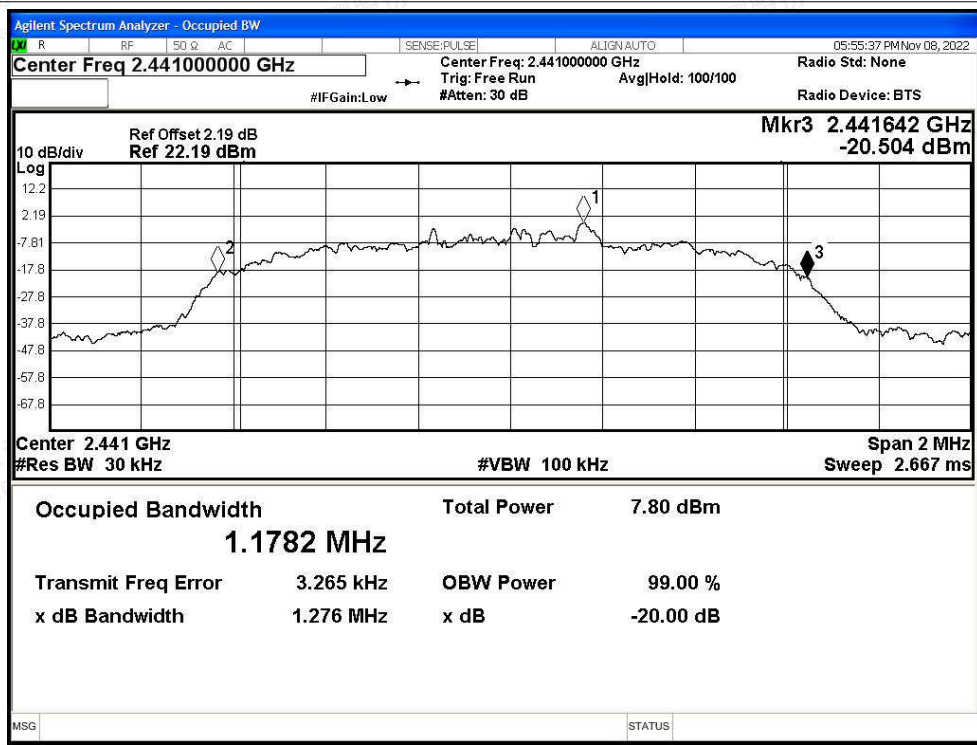


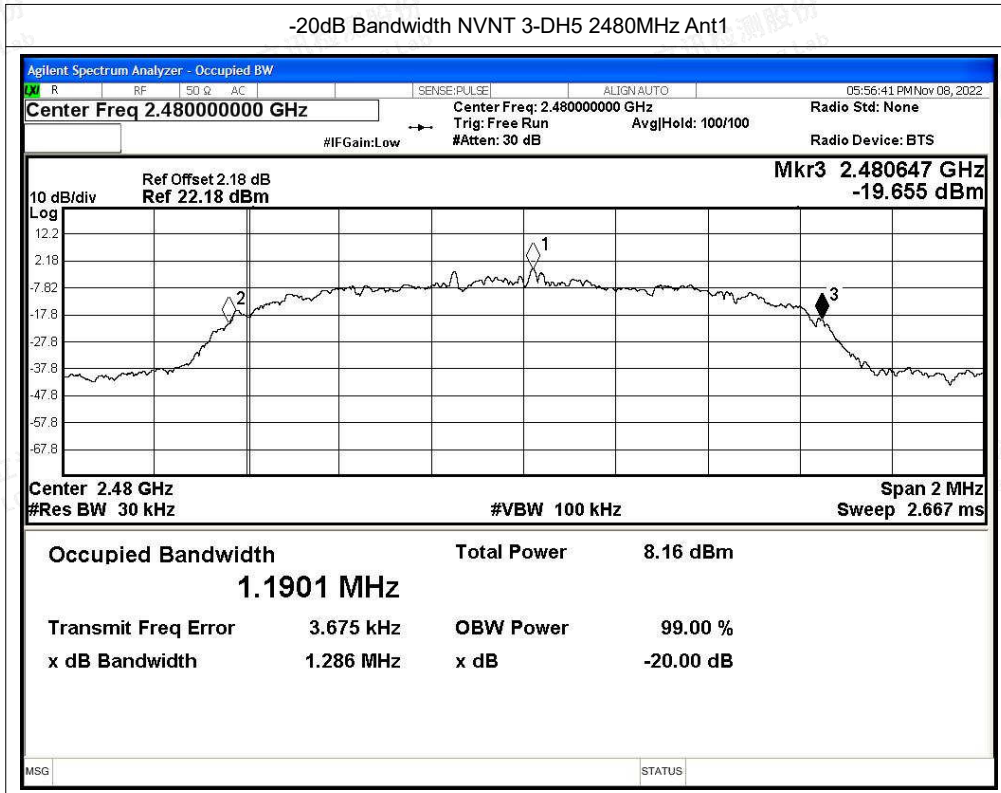


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

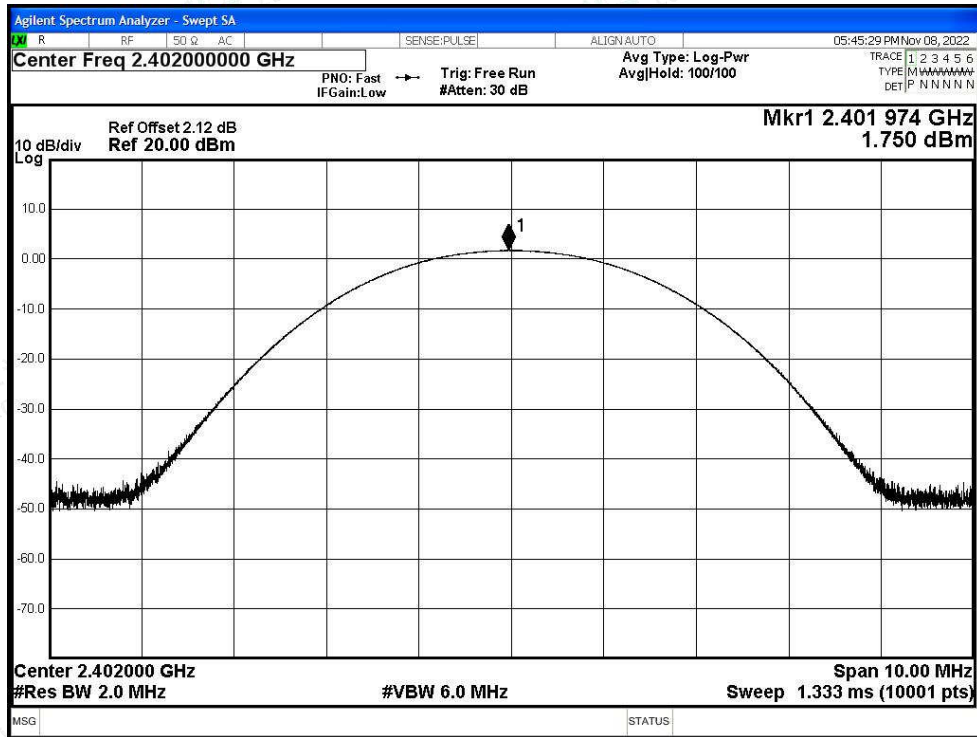
| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-------------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 1.75 | 30 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | 2.73 | 30 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | 2.93 | 30 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 1.33 | 30 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | 1.29 | 30 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | 2.03 | 30 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 1.78 | 30 | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | 2.6 | 30 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | 2.02 | 30 | Pass |



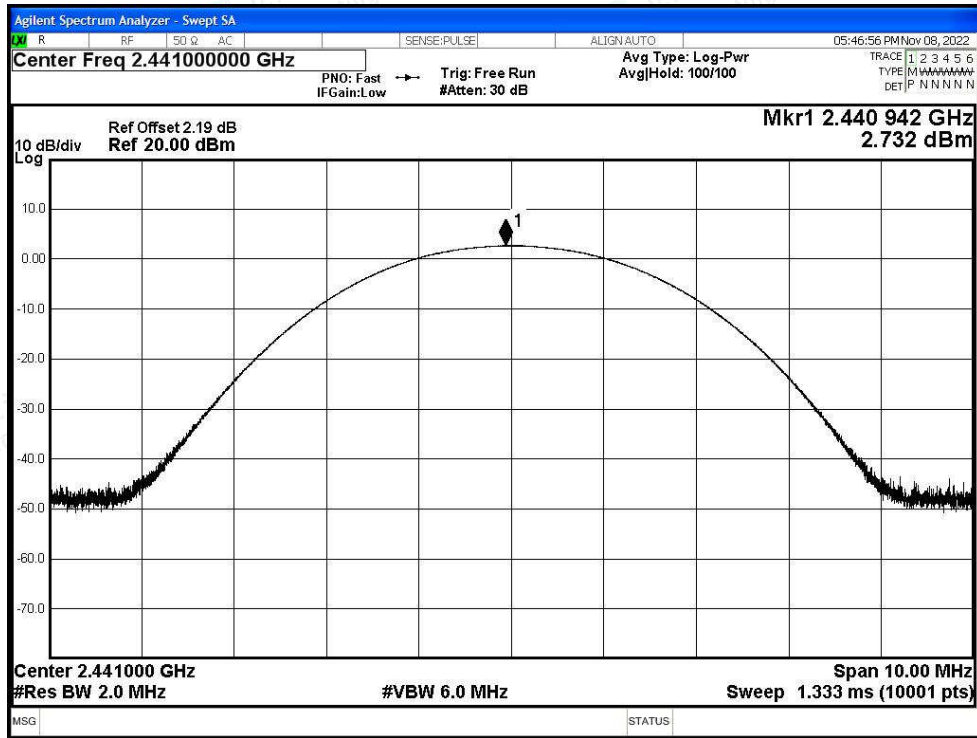


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

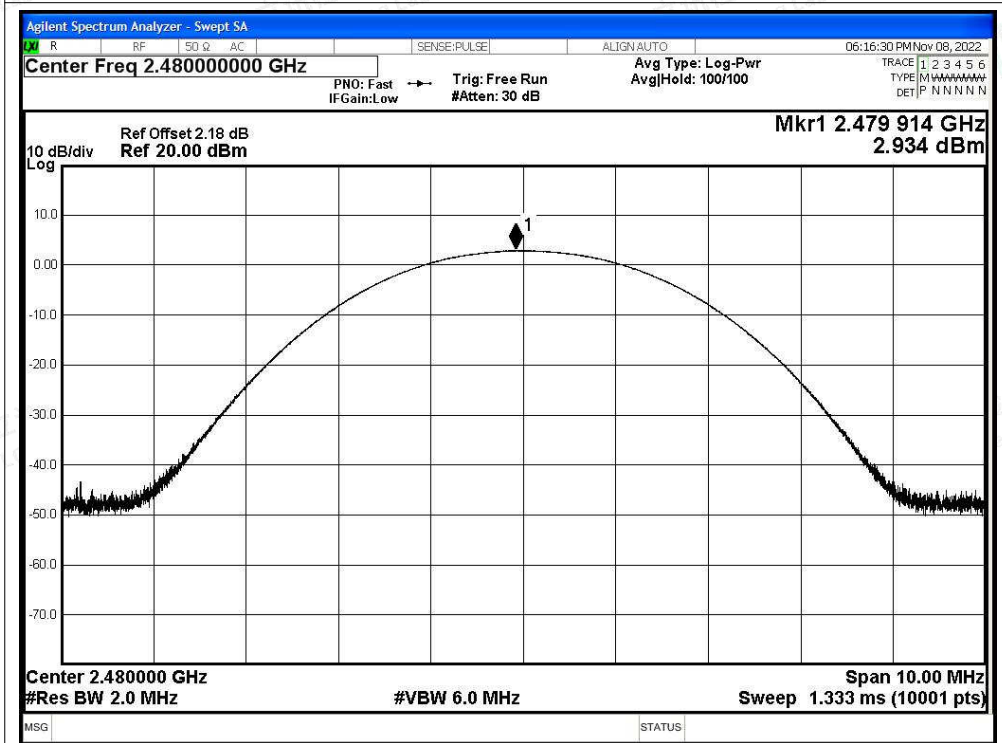


Power NVNT 1-DH5 2441MHz Ant1

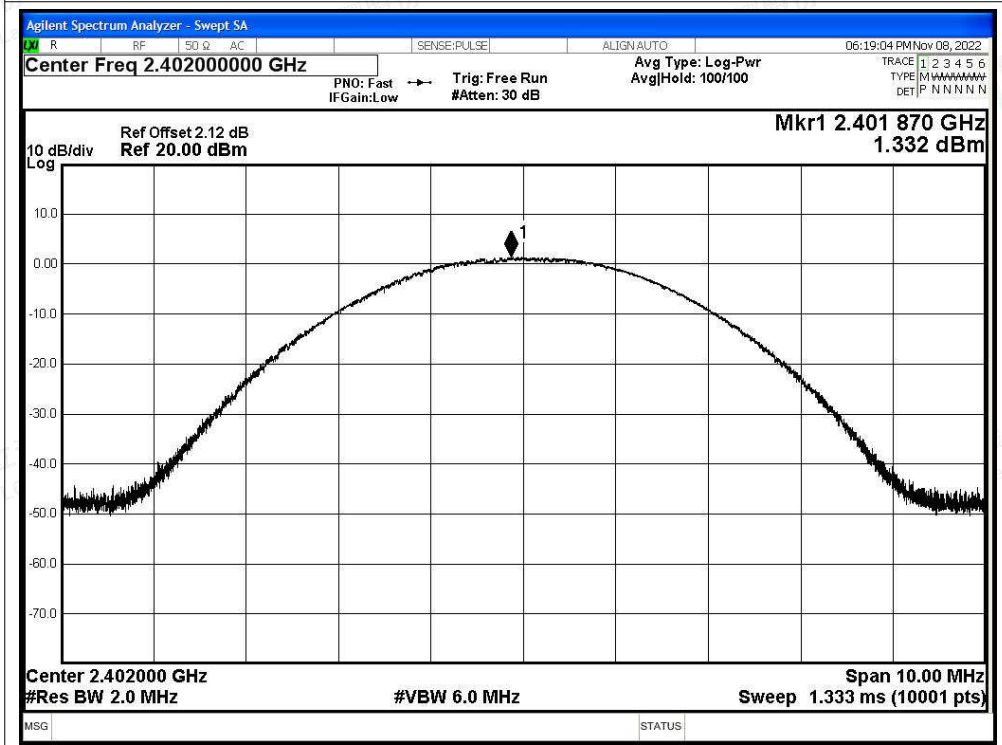




Power NVNT 1-DH5 2480MHz Ant1

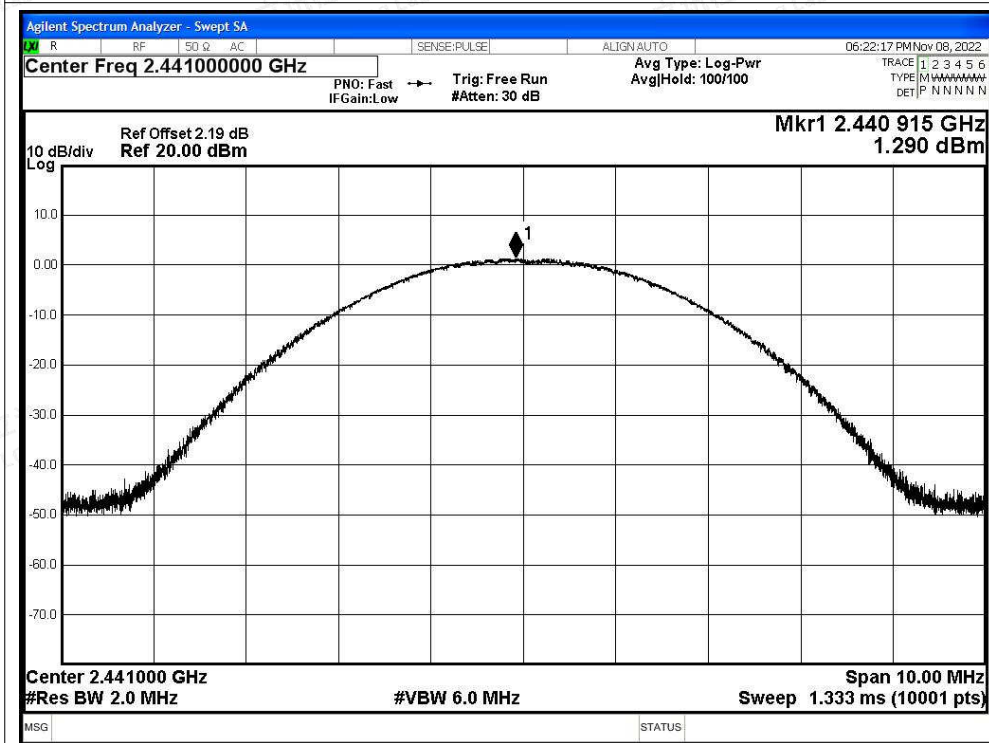


Power NVNT 2-DH5 2402MHz Ant1

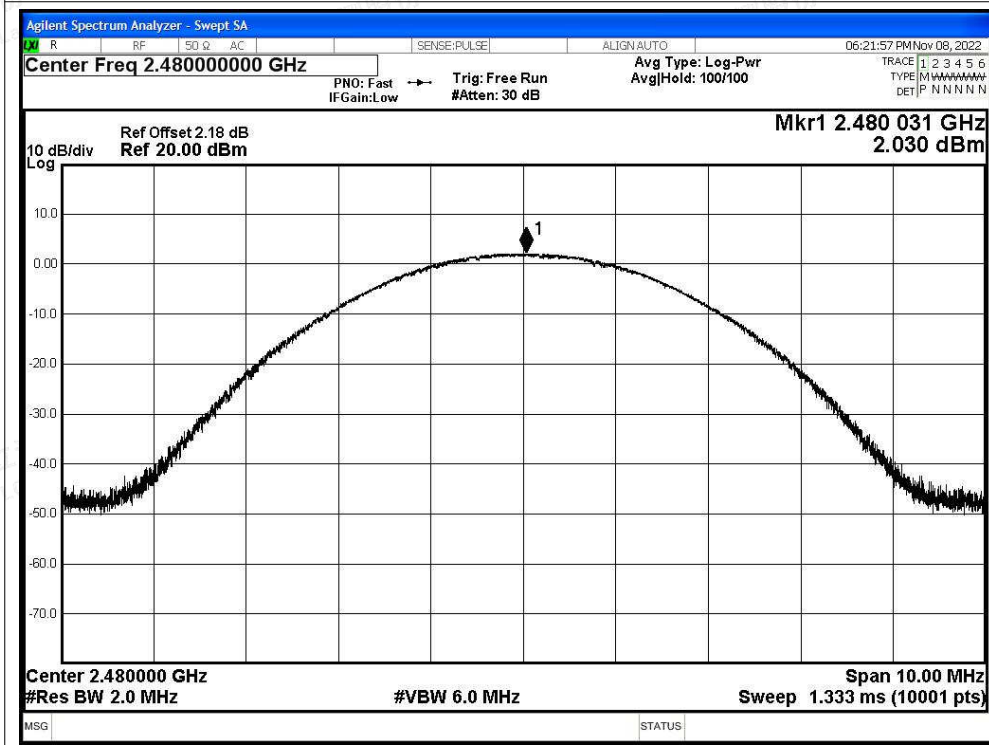




Power NVNT 2-DH5 2441MHz Ant1

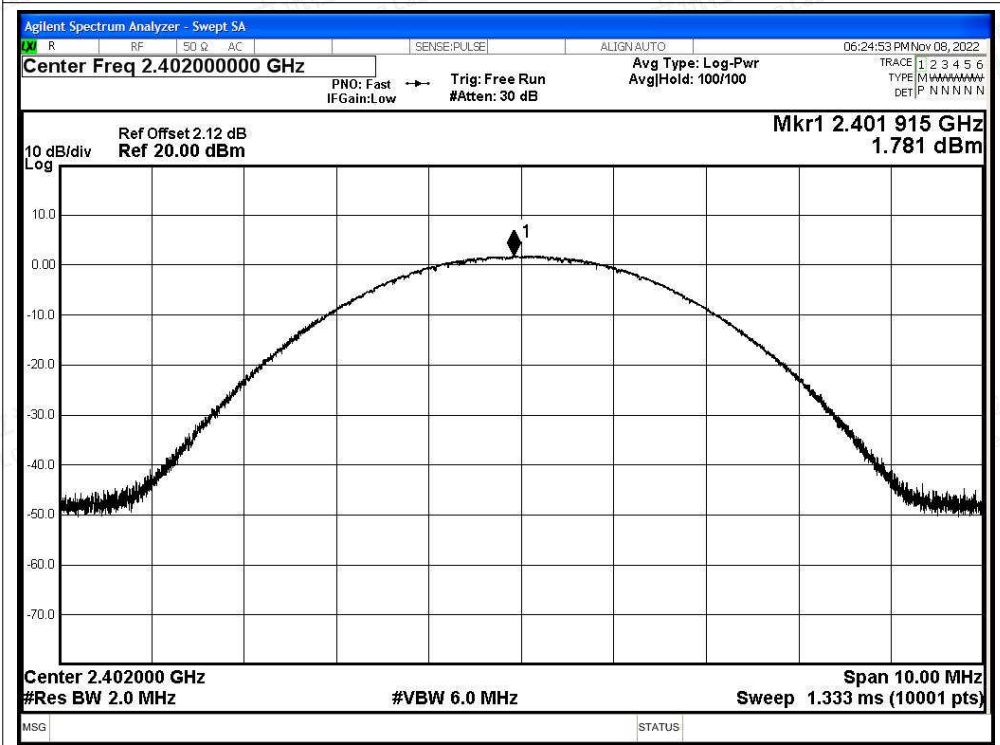


Power NVNT 2-DH5 2480MHz Ant1

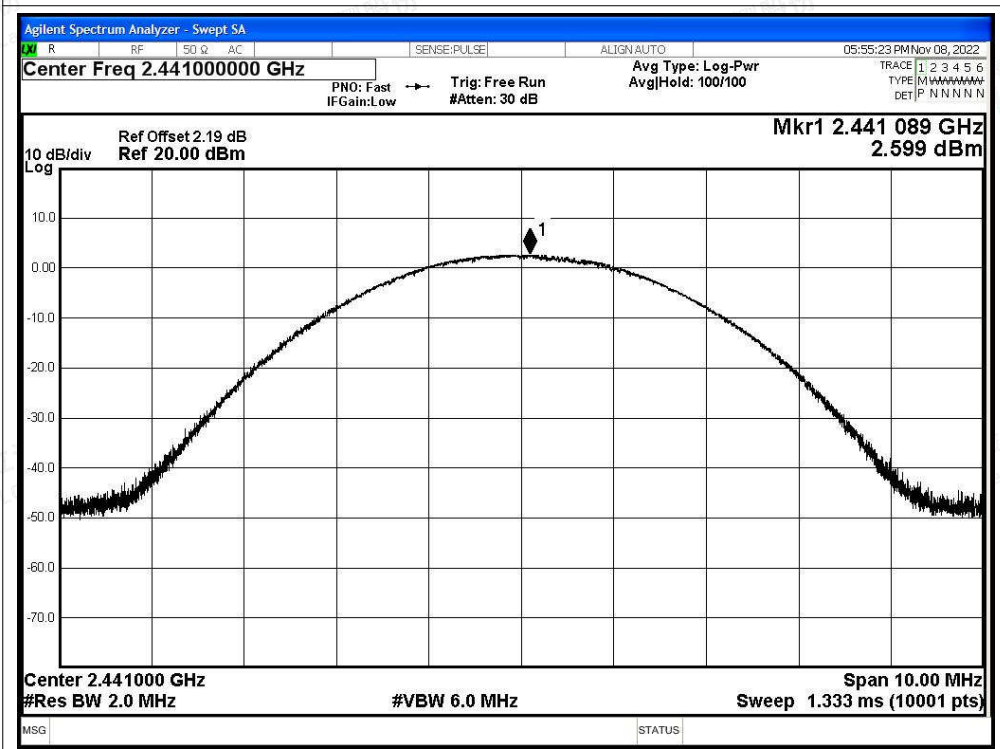


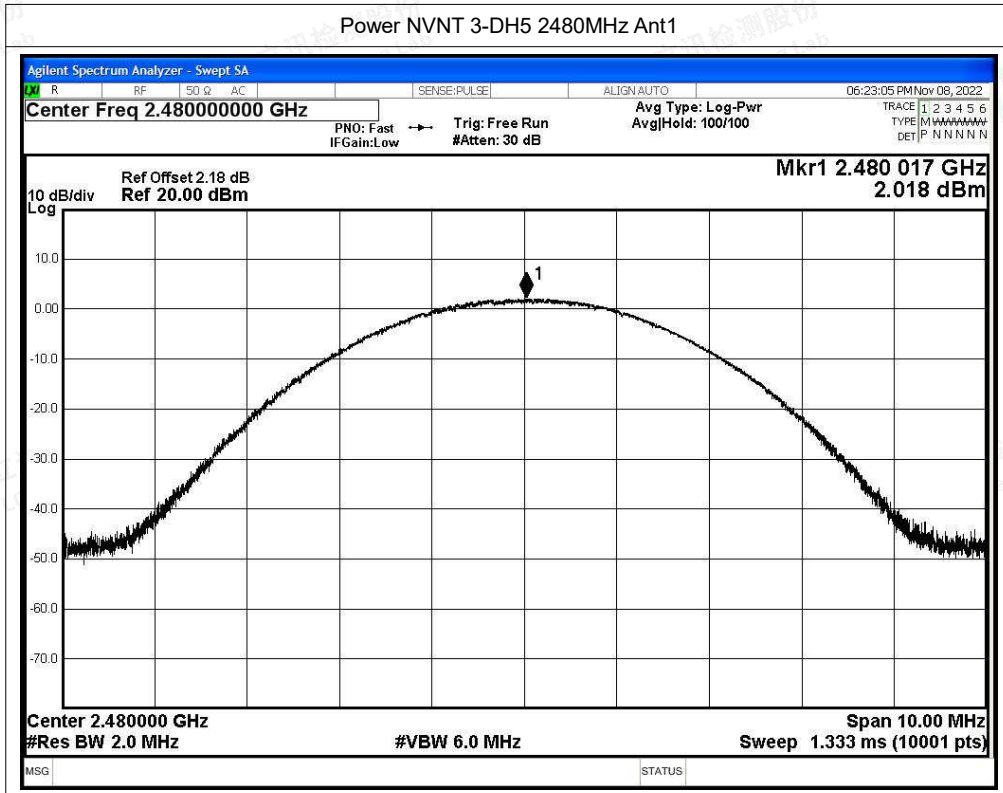


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

| Condition | Mode | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT | 1-DH5 | Ant1 | 2401.97 | 2402.998 | 1.028 | 0.613 | Pass |
| NVNT | 2-DH5 | Ant1 | 2402.026 | 2403.166 | 1.14 | 0.877 | Pass |
| NVNT | 3-DH5 | Ant1 | 2402.014 | 2403.016 | 1.002 | 0.875 | Pass |

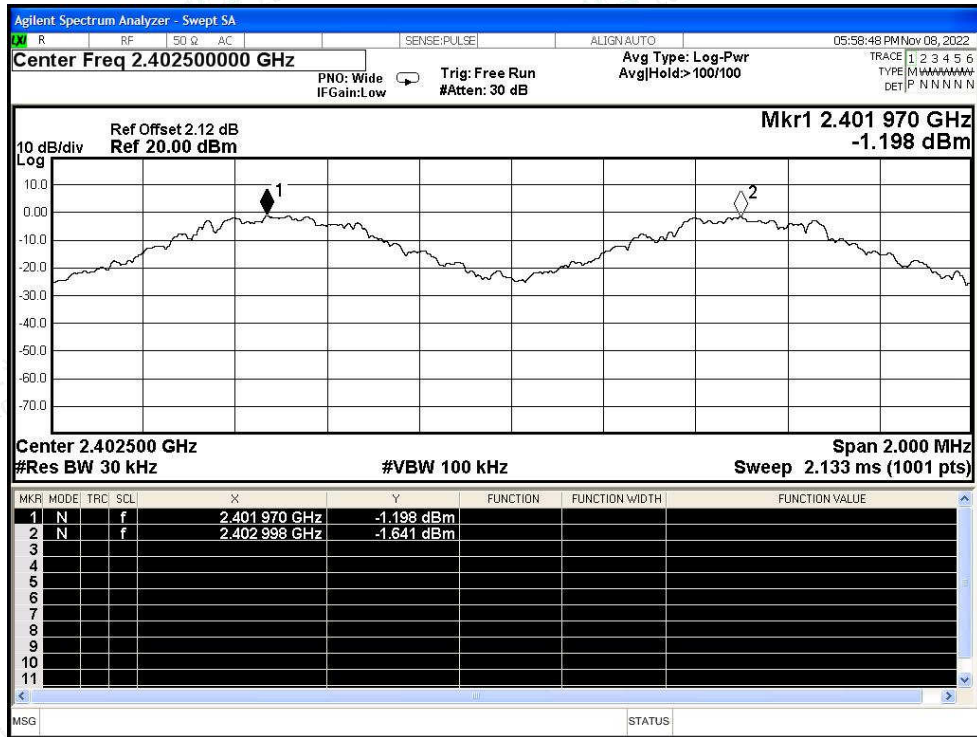


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

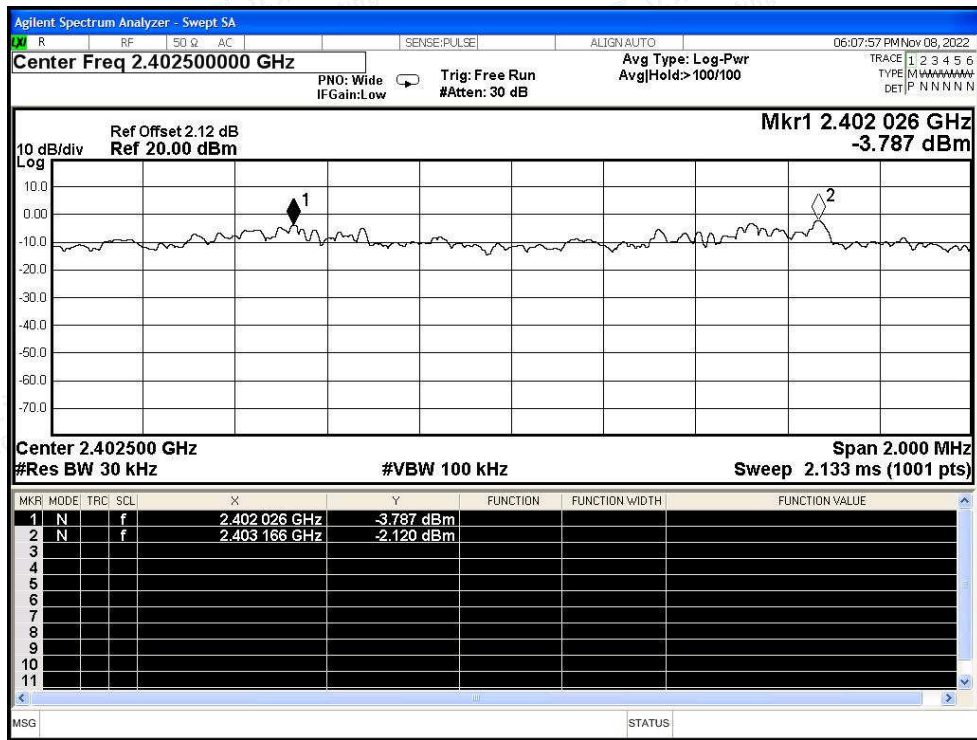


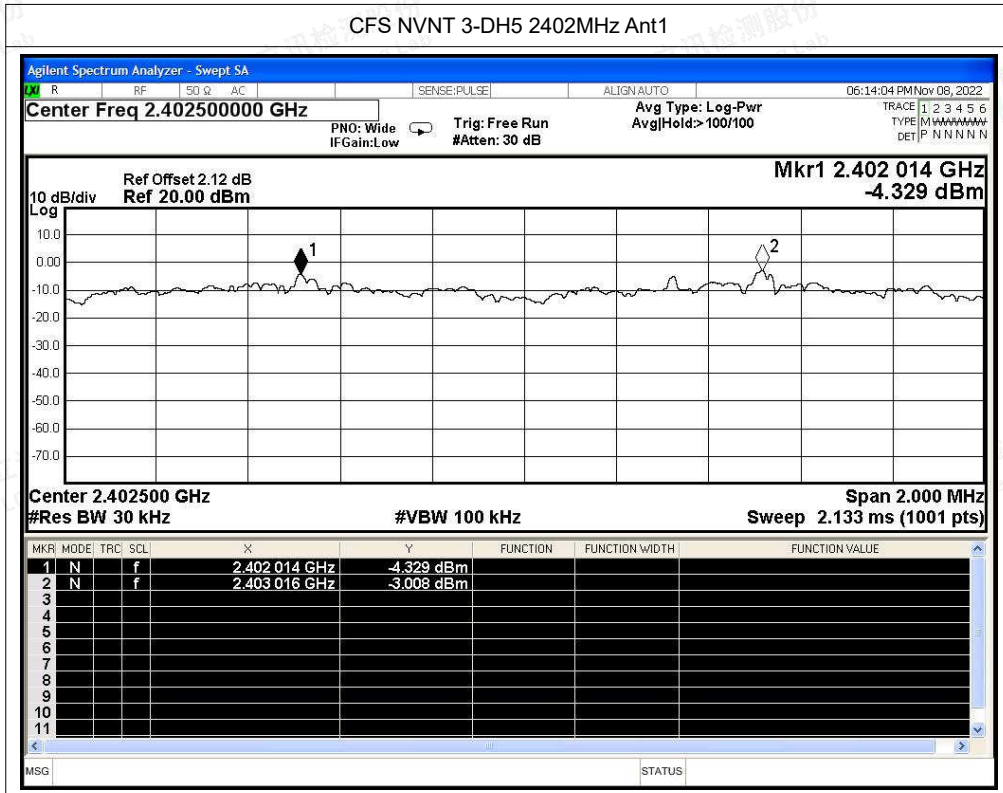
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

| Condition | Mode | Frequency (MHz) | Antenna | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-----------------------|-------------|------------------|------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | 2.882 | 291.082 | 101 | 31600 | 400 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | 2.885 | 297.155 | 103 | 31600 | 400 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | 2.887 | 314.683 | 109 | 31600 | 400 | Pass |

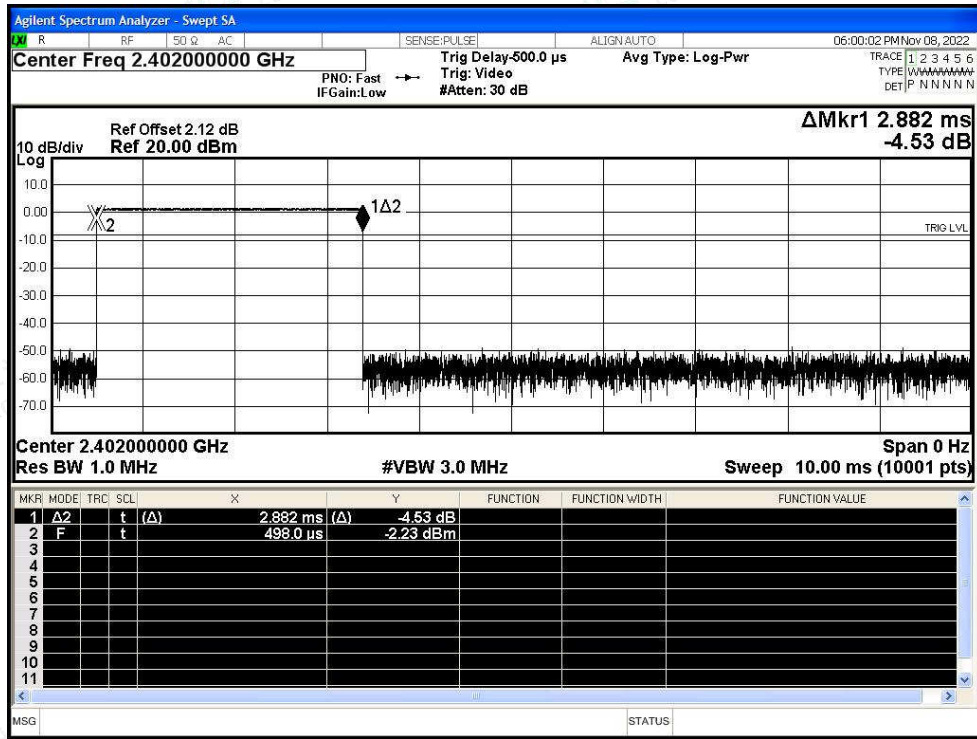


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

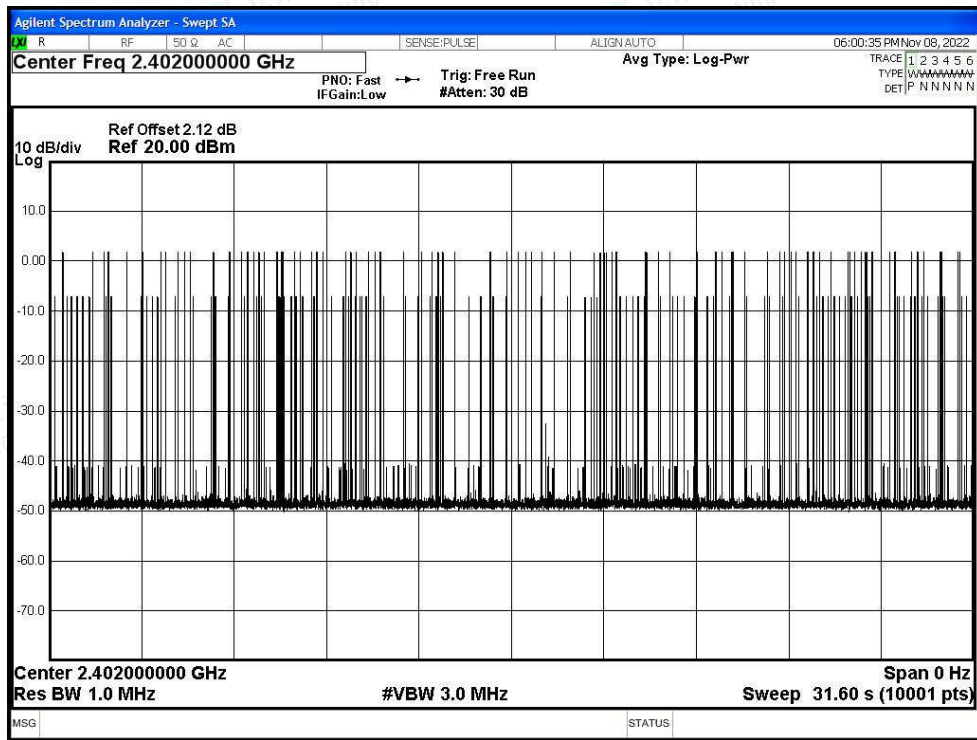


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

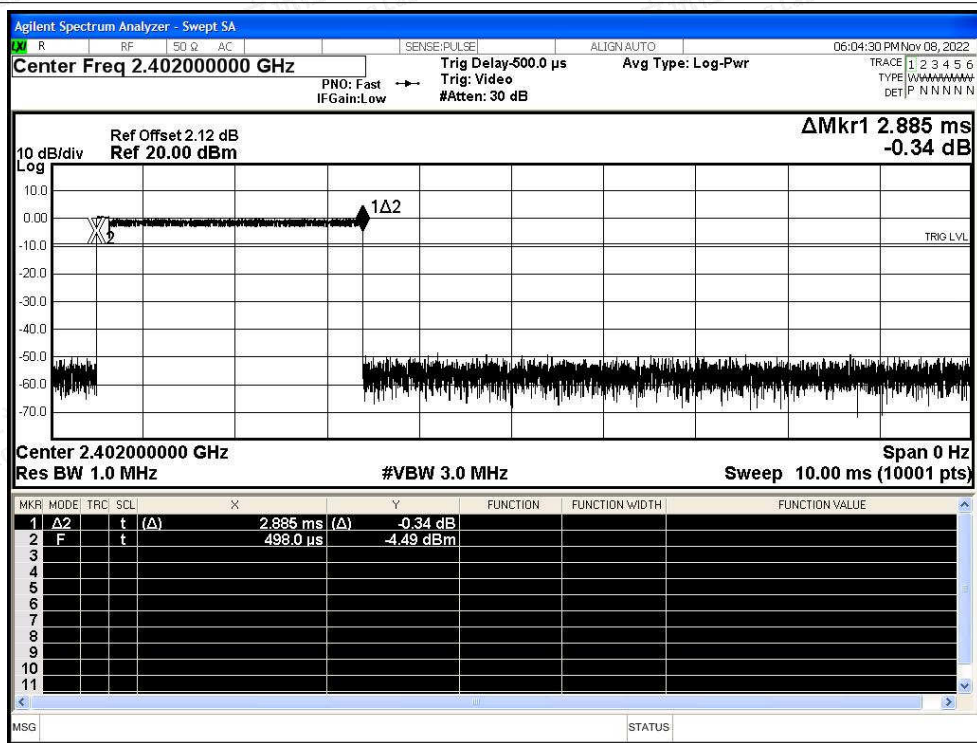


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

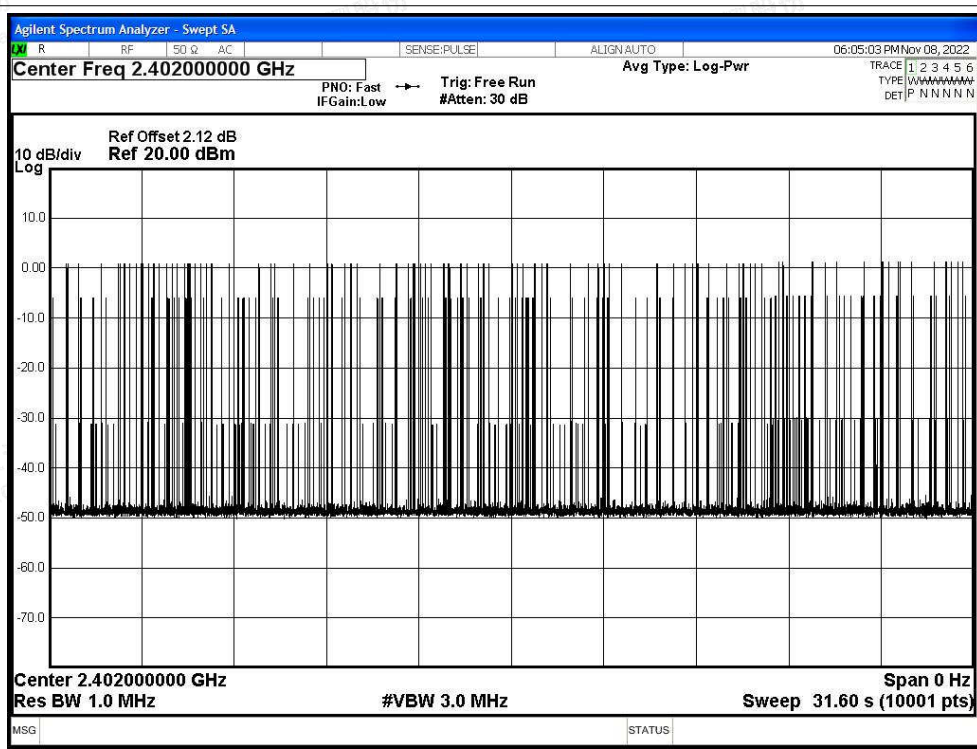




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

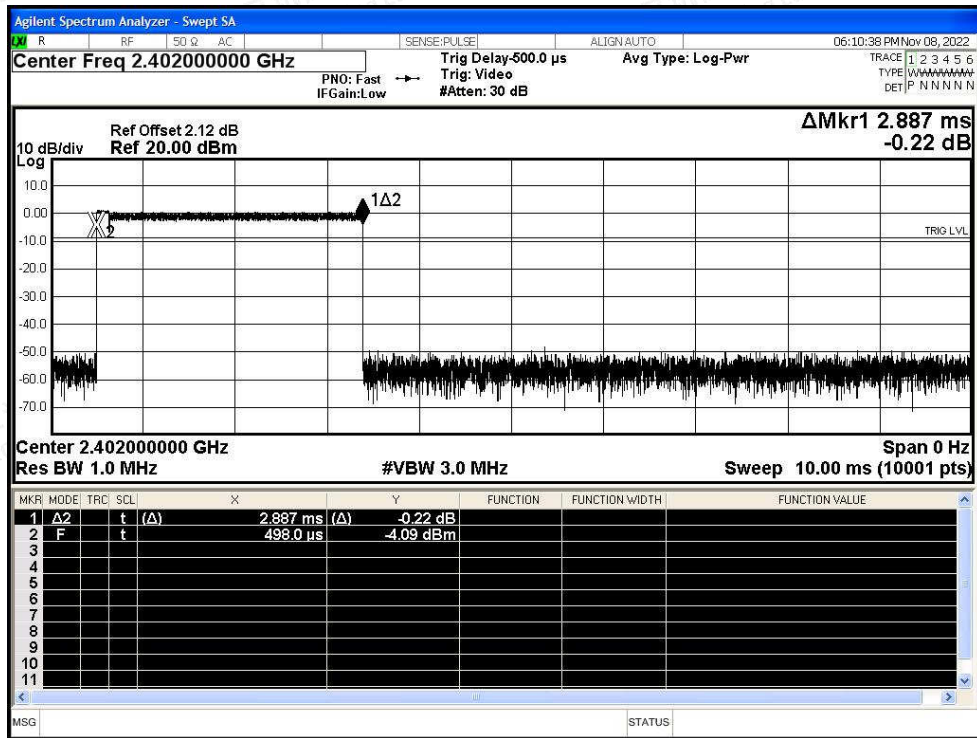


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

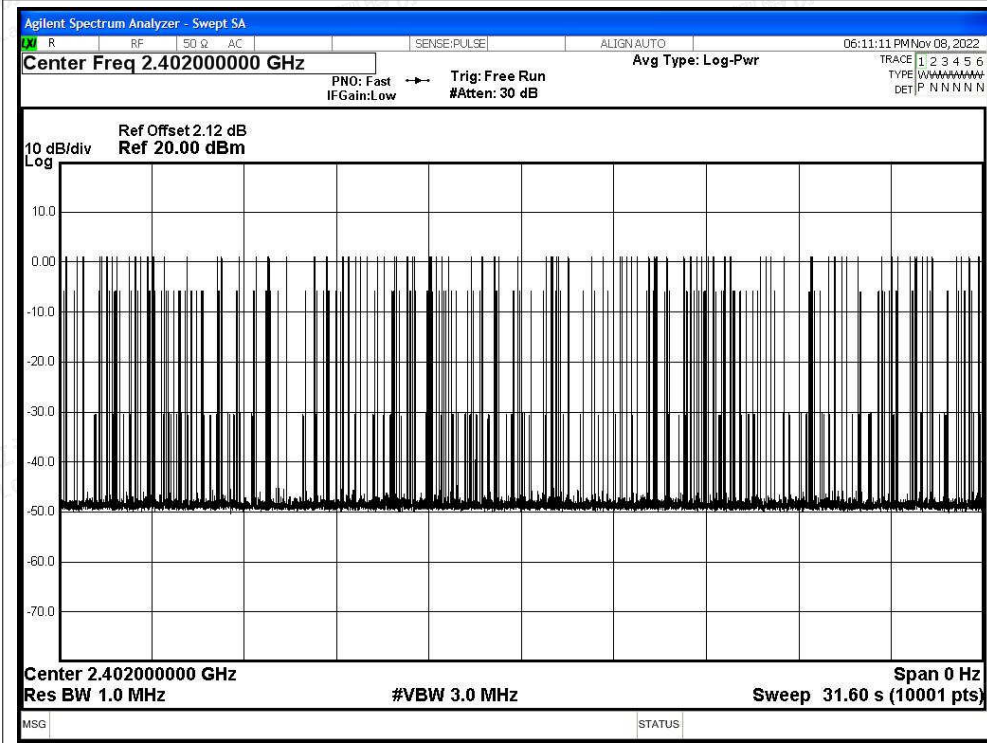




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

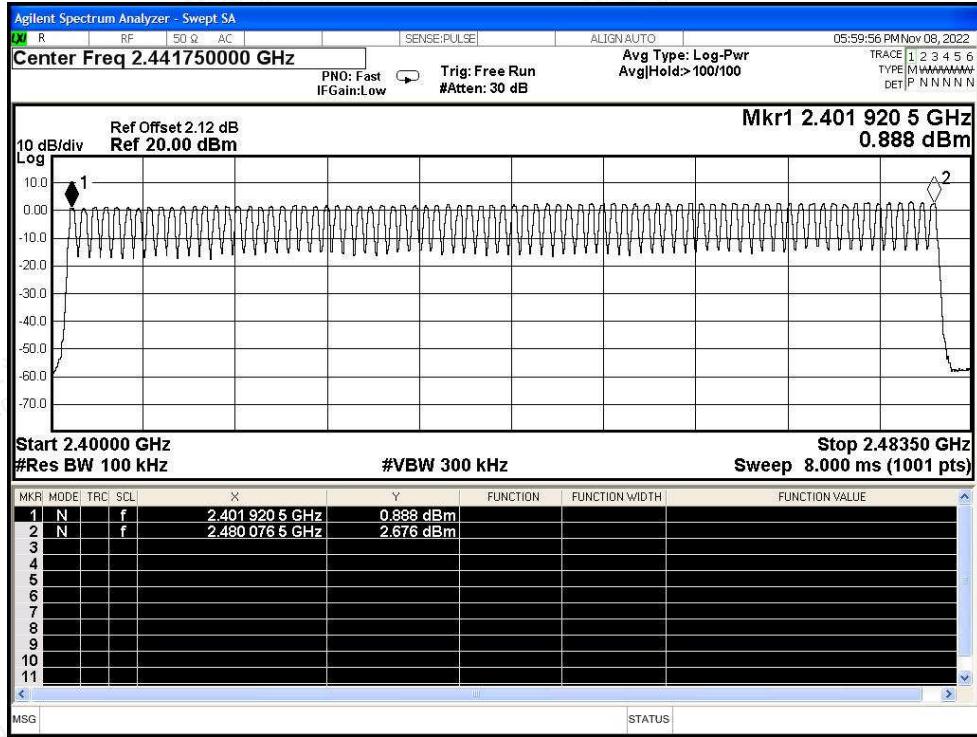
| Condition | Mode | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT | 1-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 2-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 3-DH5 | Ant1 | 79 | 15 | Pass |



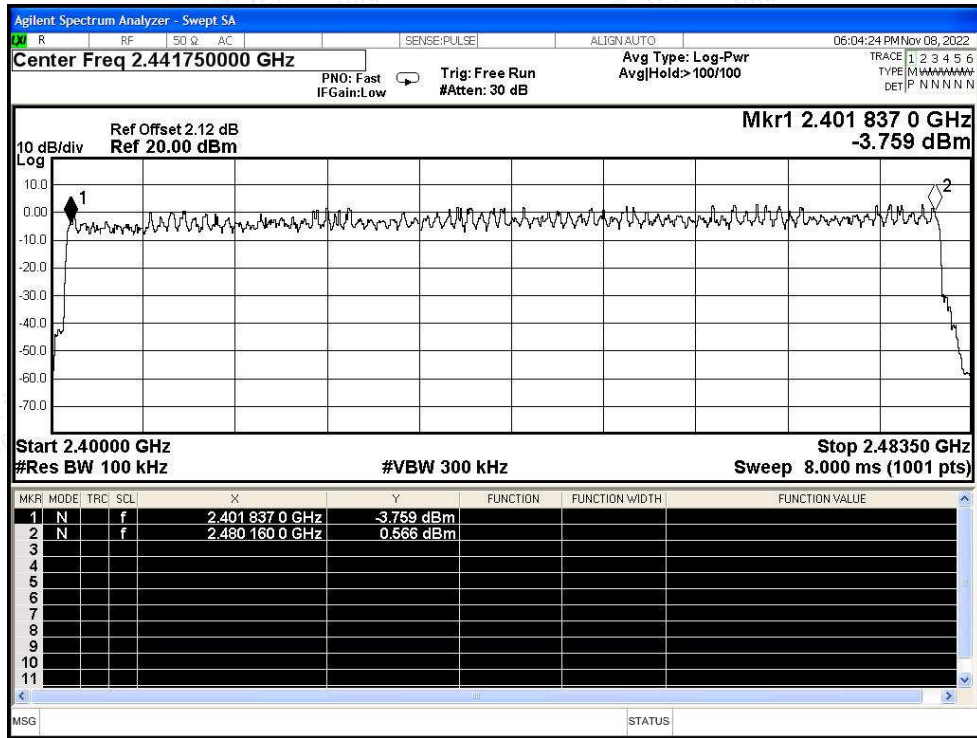


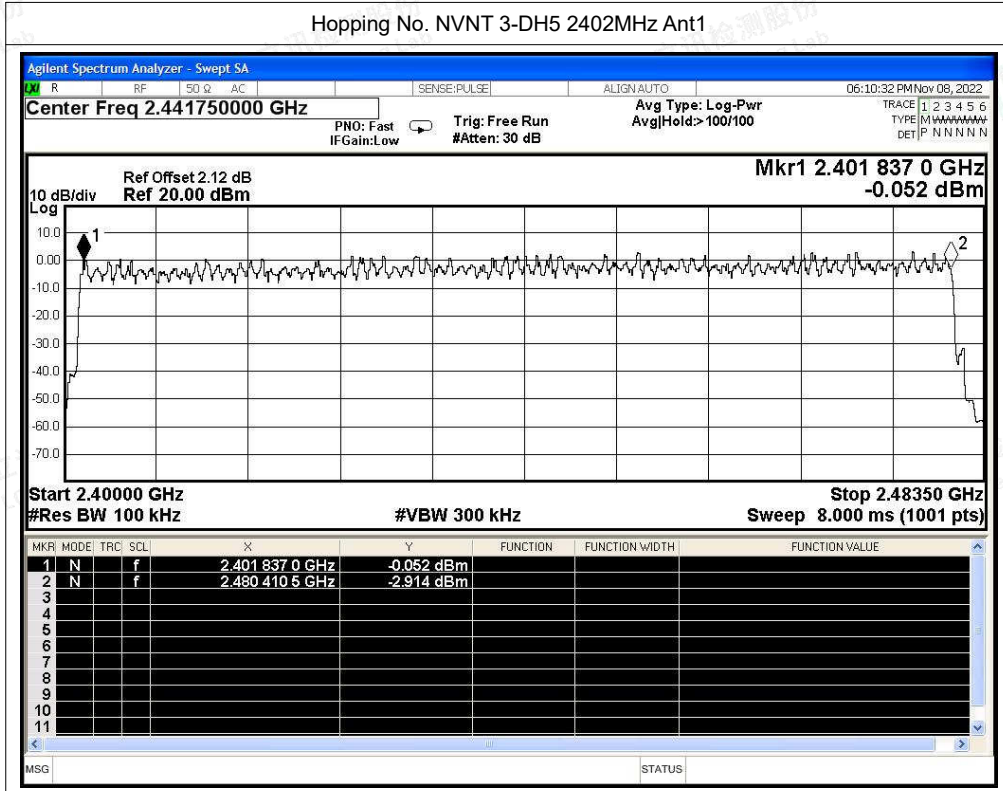
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

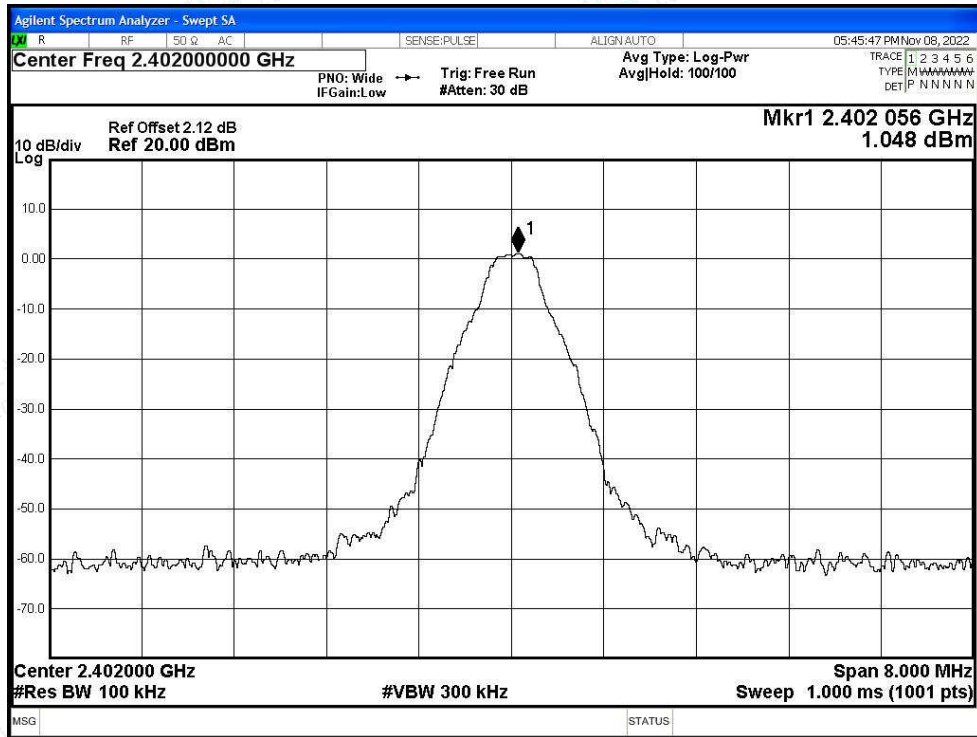
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | -58.64 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | -60.13 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | -55.46 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | -59.56 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | -56.38 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | -59.32 | -20 | Pass |



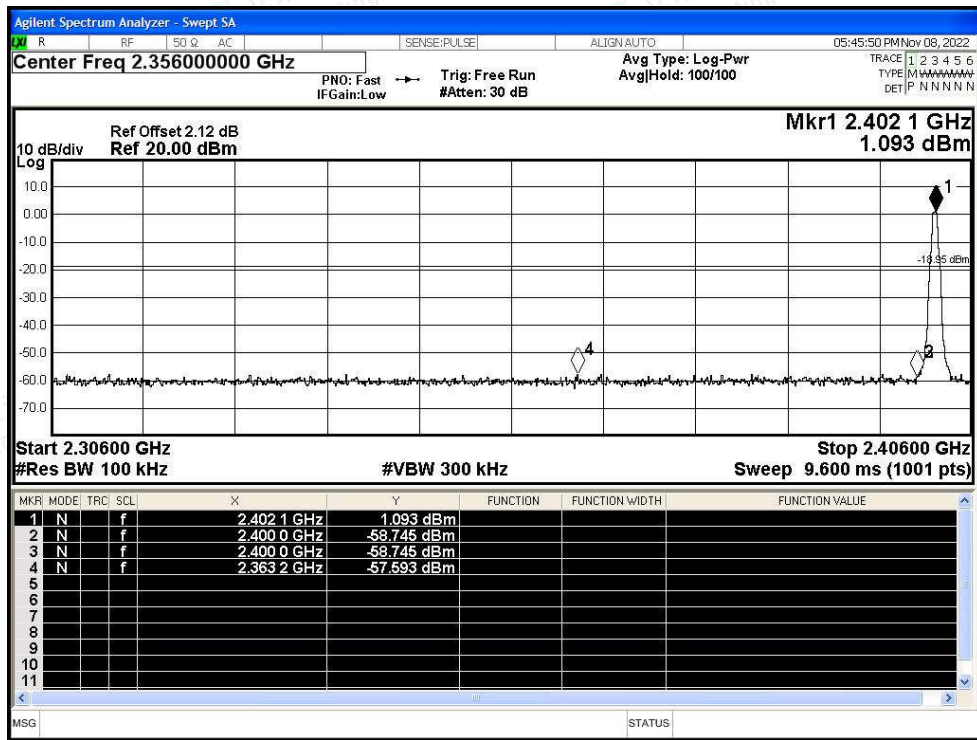


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

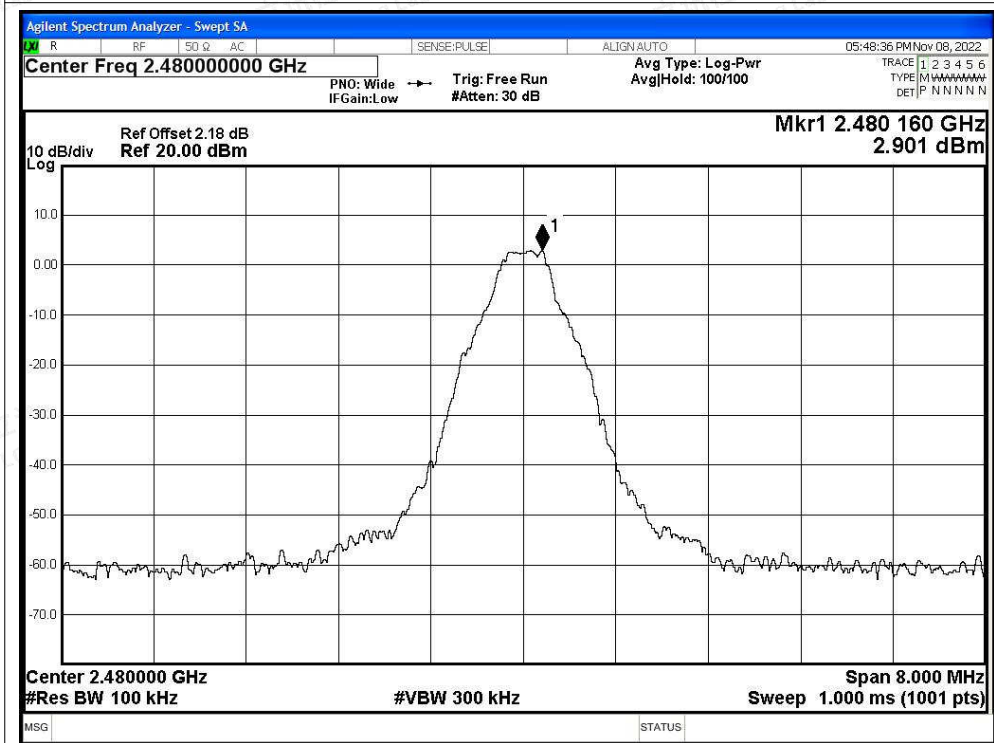


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

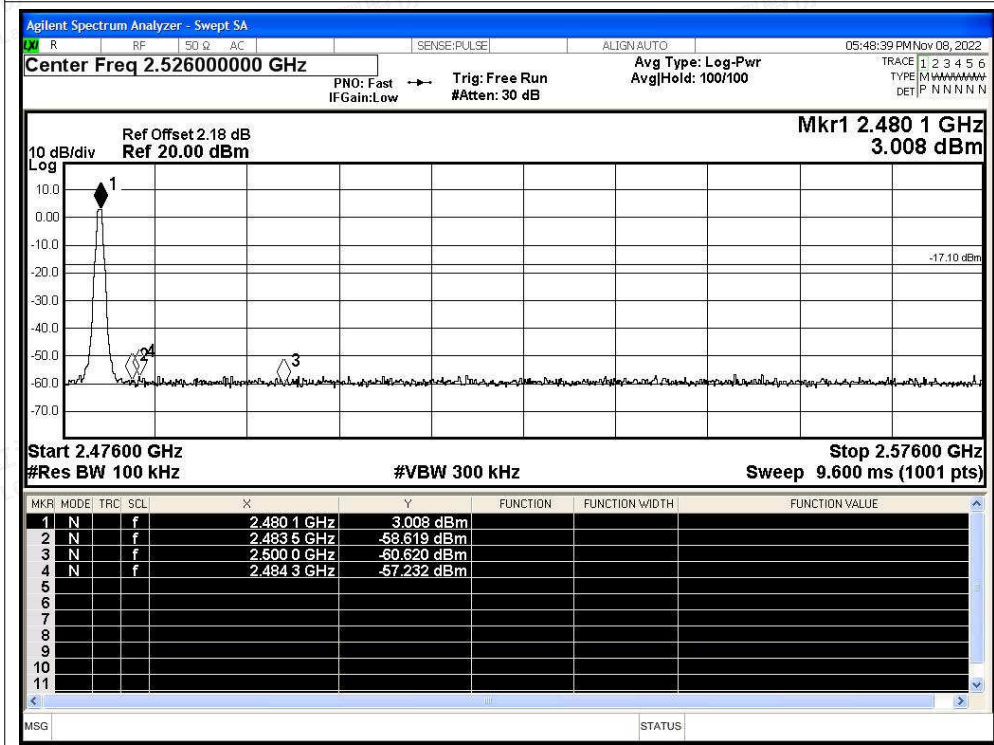




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

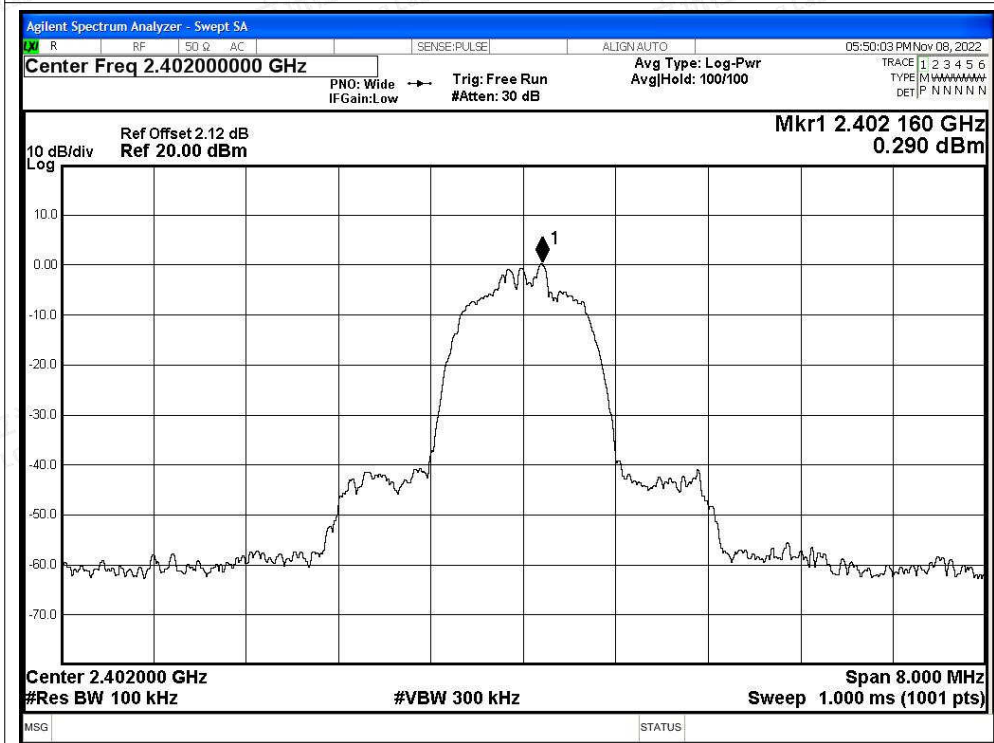


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

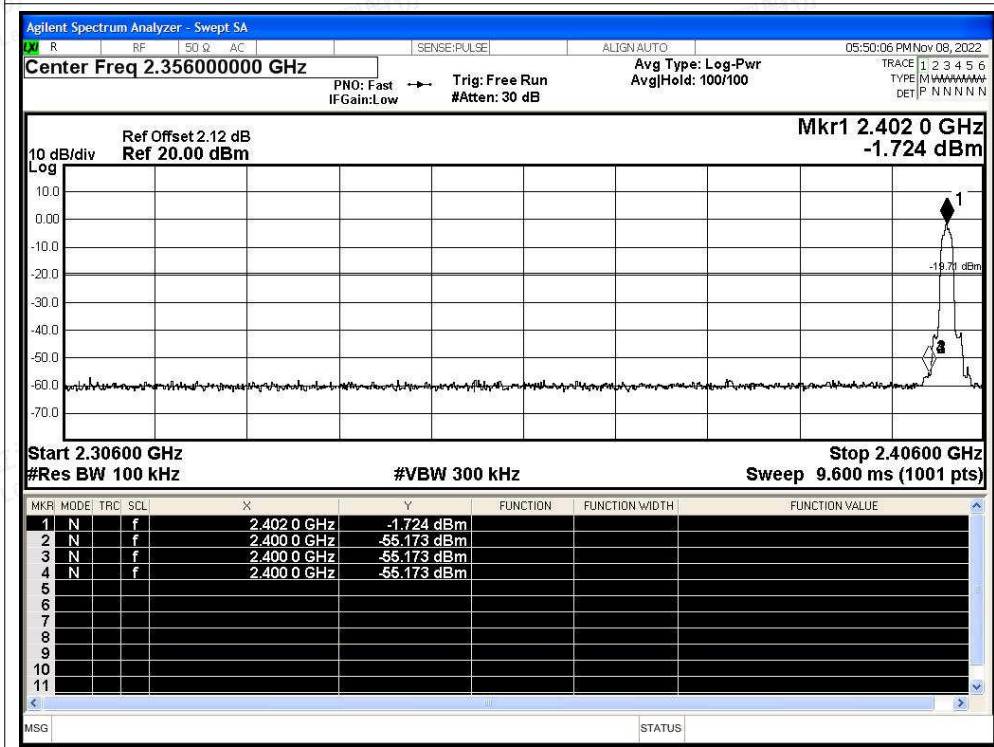




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

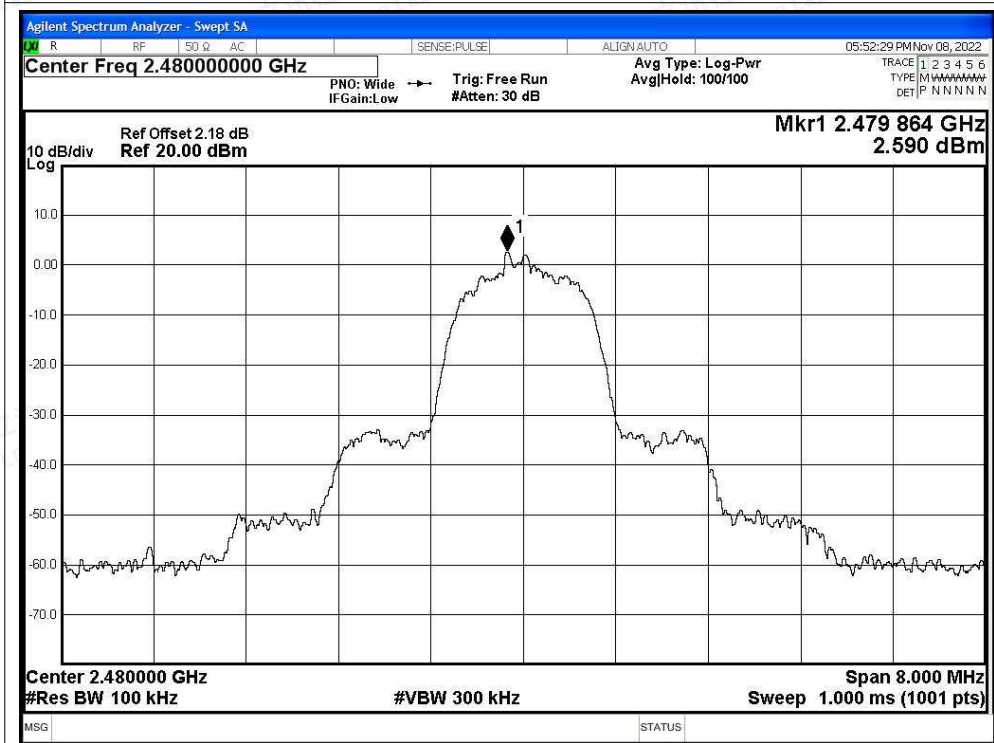


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

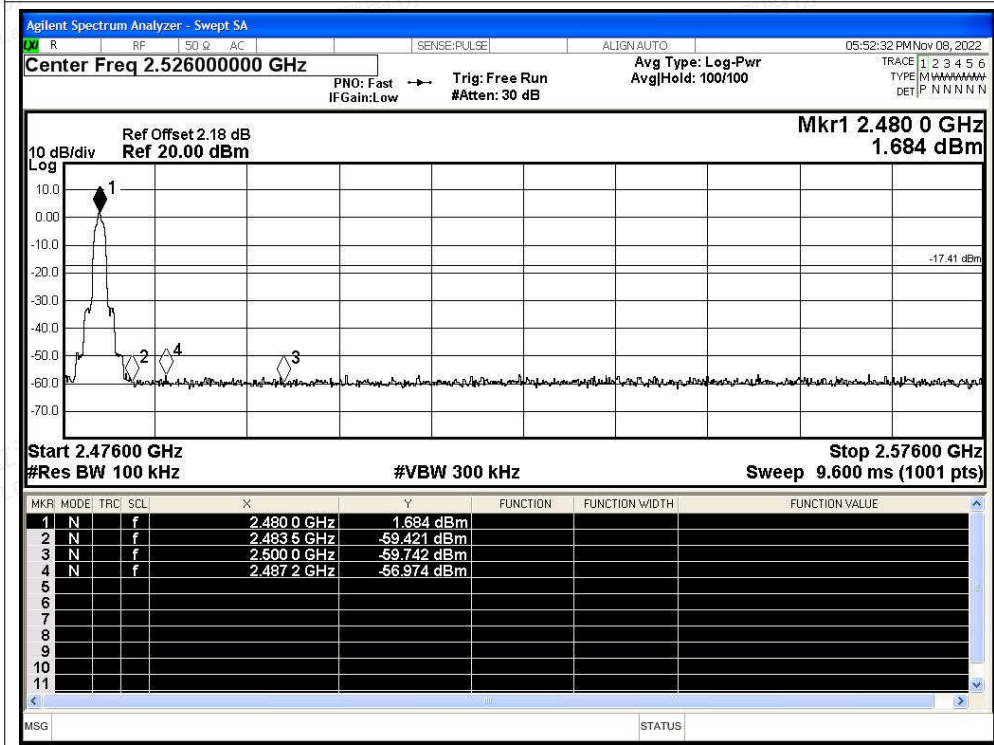




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

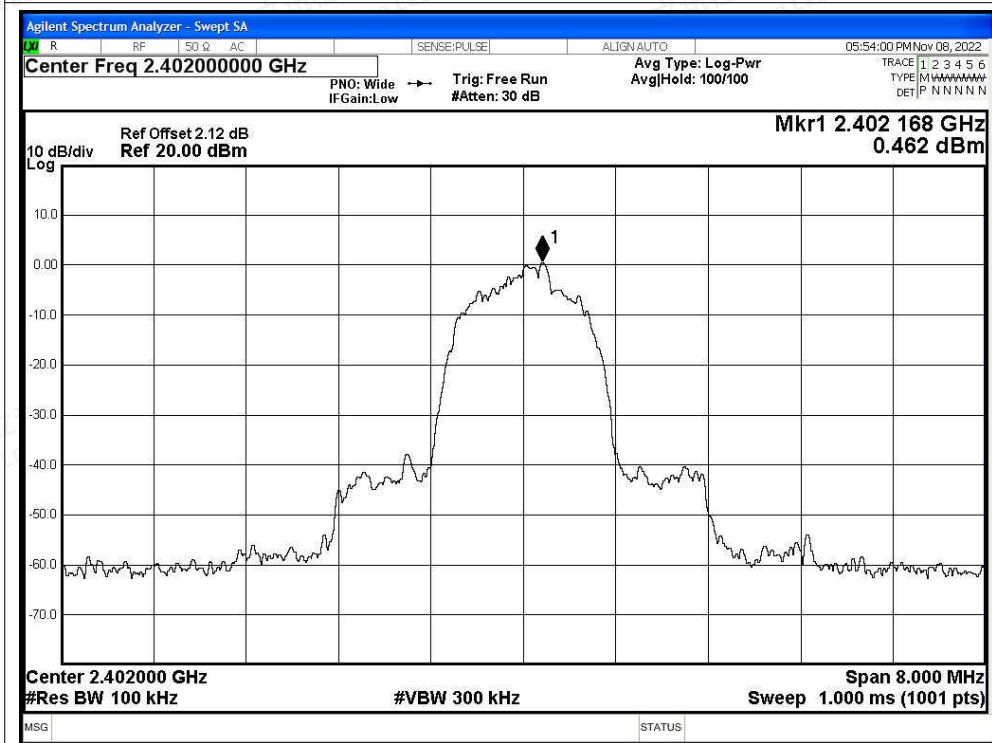


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

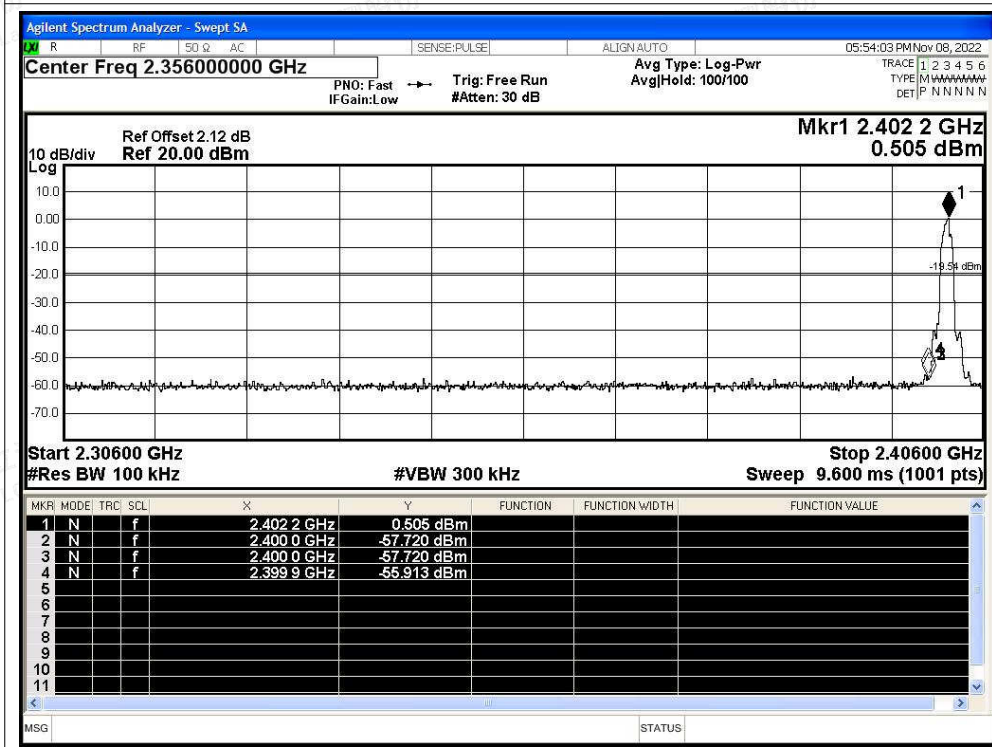




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

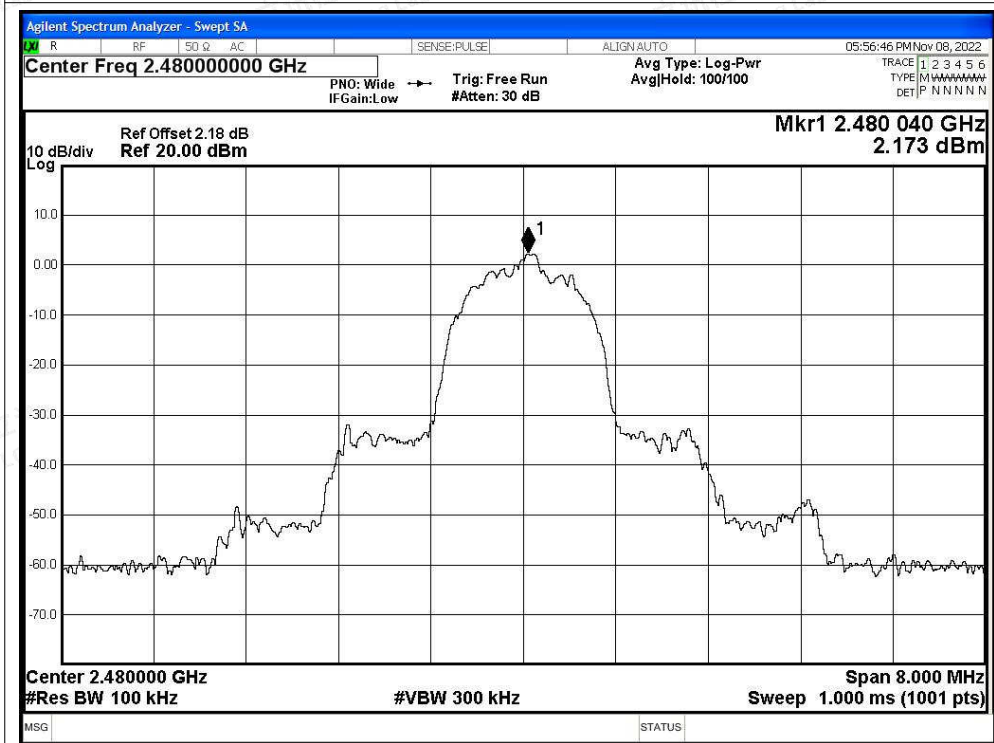


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

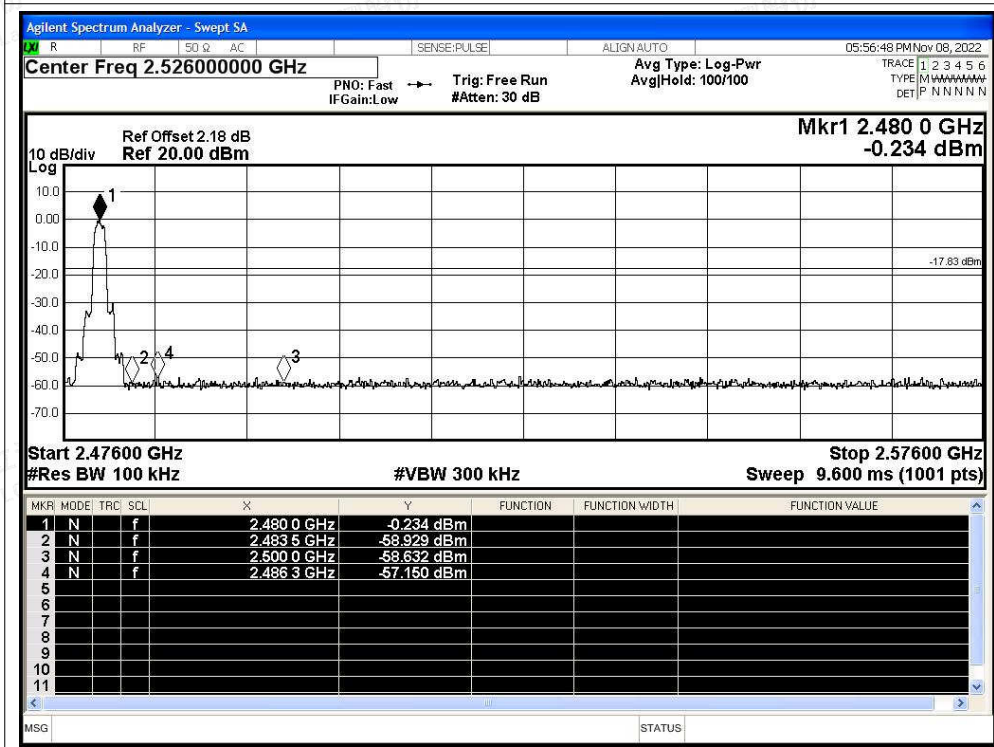




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission





(Hopping)

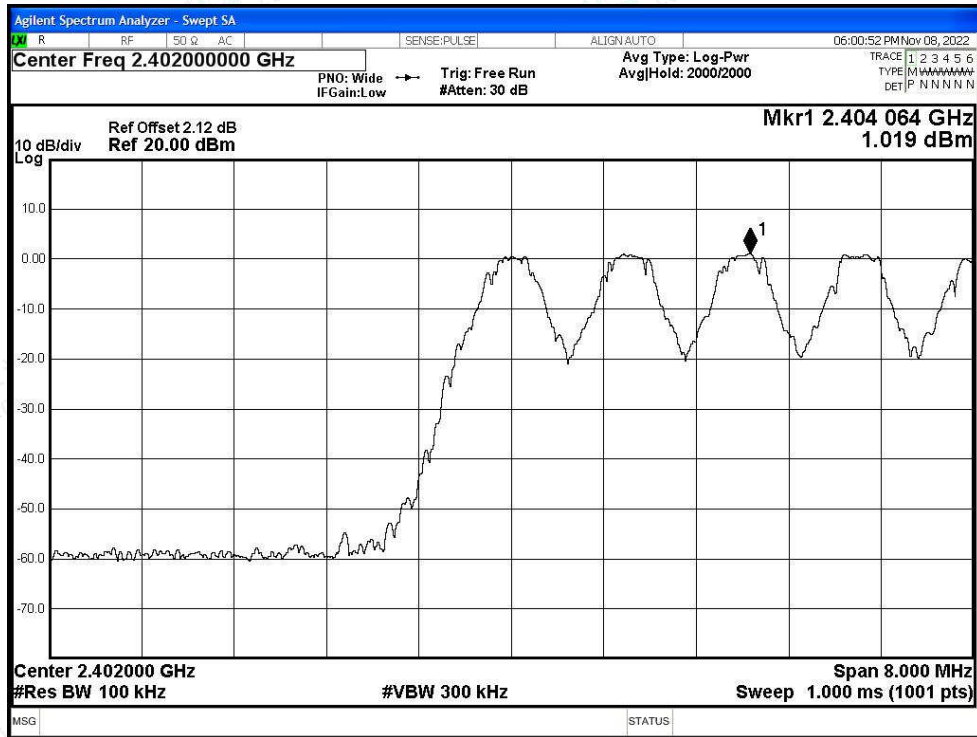
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT | 1-DH5 | 2402 | Ant1 | Hopping | -57.42 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | Hopping | -59.18 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | Hopping | -57.61 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | Hopping | -59.56 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | Hopping | -55.72 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | Hopping | -55.82 | -20 | Pass |



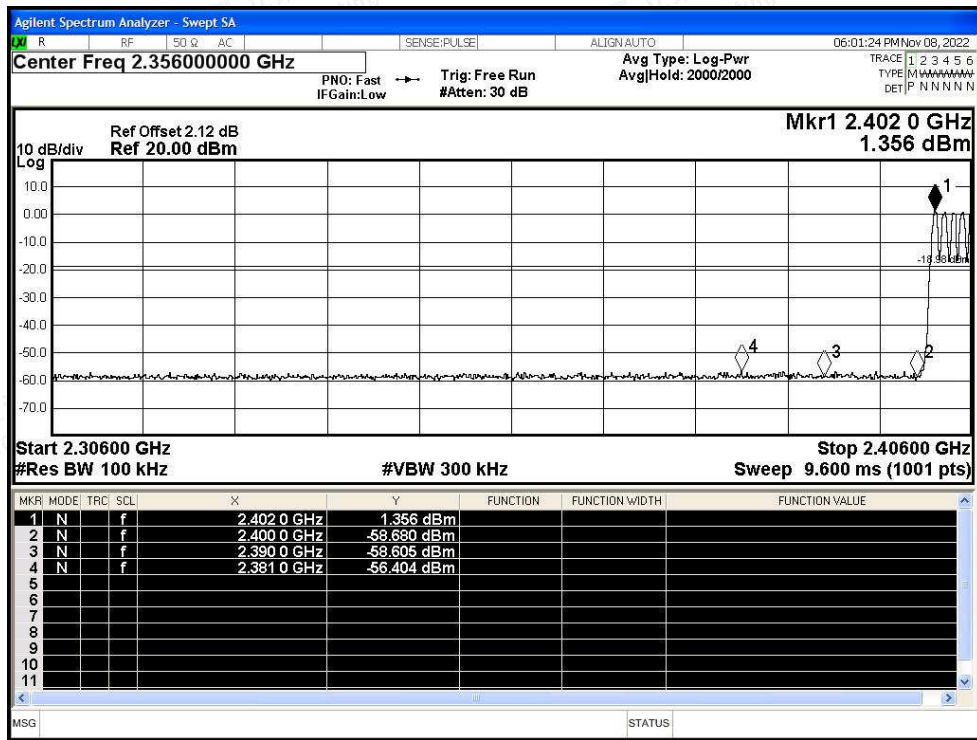


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

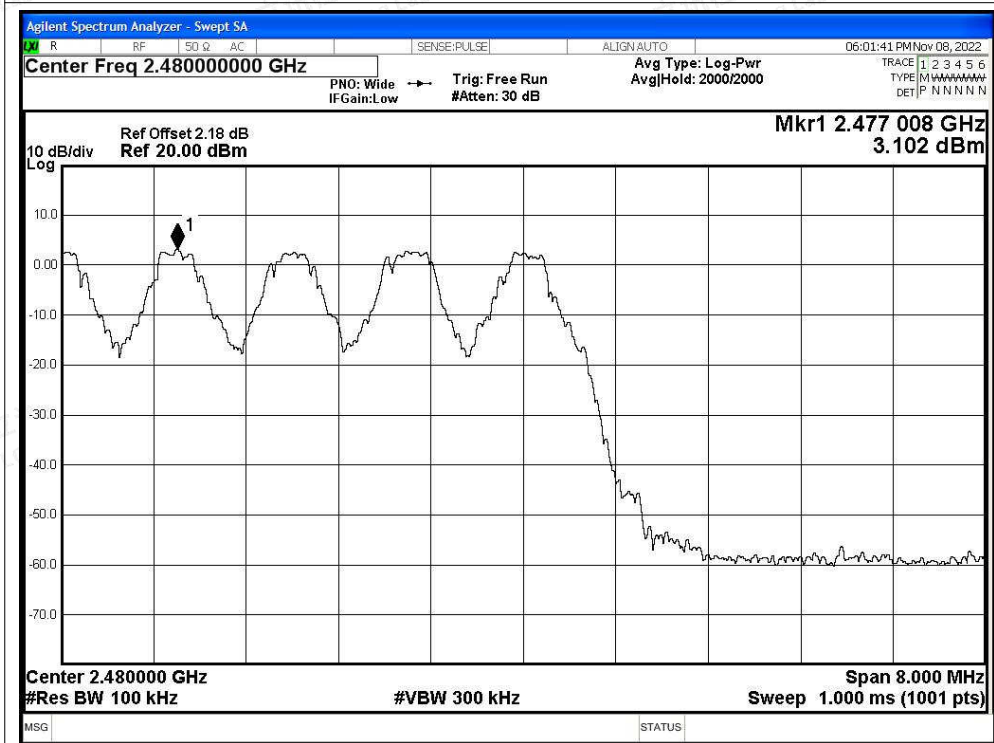


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission





Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

